

What is claimed is:

1 1. A light emitting apparatus, comprising:
2 a semiconductor light emitting element that radiates
3 light from its light emission surface provided on the opposite
4 side to its electrode forming surface;
5 lead frames that are electrically connected to electrodes
6 formed on the electrode forming surface through wires;
7 a transparent structure that is optically connected with
8 the light emission surface and has a light distribution
9 characteristic based on its three-dimensional shape; and
10 light transmitting resin that seals the semiconductor
11 light emitting element and the transparent structure.

1 2. The light emitting apparatus according to claim 1,
2 wherein:
3 the transparent structure has a length in the horizontal
4 direction greater than that of the semiconductor light emitting
5 element.

1 3. The light emitting apparatus according to claim 1,
2 wherein:
3 the transparent structure has a thickness of half that
4 of the semiconductor light emitting element to twice the length
5 of a shorter side of the semiconductor light emitting element.

1 4. The light emitting apparatus according to claim 1,
2 wherein:
3 the transparent structure has a microscopic uneven

4 surface to diffuse light.

1 5. The light emitting apparatus according to claim 1,
2 wherein:

3 the transparent structure has a reflection layer formed
4 on its surface.

1 6. The light emitting apparatus according to claim 1,
2 wherein:

3 one of the lead frames has a cup portion, and
4 the transparent structure is fixed on the cup portion
5 through adhesive resin with light diffusion material mixed
6 therein.

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2 7. The light emitting apparatus according to claim 1,
3 wherein:

4 the electrodes do not transmit light.

1 8. A light emitting apparatus, comprising:
2 a semiconductor light emitting element that radiates
3 light from its light emission surface provided on the opposite
4 side to its electrode forming surface;

5 lead frames that are electrically connected to electrodes
6 formed on the electrode forming surface through wires;

7 a transparent structure that is optically connected with
8 the light emission surface and has a light distribution
9 characteristic based on its three-dimensional shape; and

10 light transmitting resin that seals the semiconductor
11 light emitting element and the transparent structure, the light

12 transmitting resin including a phosphor to wavelength-convert
13 light emitted from the semiconductor light emitting element.

1 9. The light emitting apparatus according to claim 8,
2 wherein:

3 the light transmitting resin contains two or more kinds
4 of phosphors.